



- (51) International Patent Classification: Not classified
- (21) International Application Number: PCT/GB2012/050863
- (22) International Filing Date: 20 April 2012 (20.04.2012)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 1106718.8 21 April 2011 (21.04.2011) GB
- (71) Applicant (for all designated States except US): **MAN-AGED PRESSURE OPERATIONS PTE. LIMITED** [SG/SG]; 1 Maritime Square, #12-04A, Harbour Front Centre, Singapore 099253 (SG).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **LEUCHTENBERG, Christian** [DE/SG]; Apt 06#103, Block 42A, Caribbean Apartments Keppel Bay Drive, Singapore 098656 (SG). **MACGREGOR, Alexander John** [GB/SG]; 33 Jurong West St 41, #09-54 The Lakeshore, Singapore 649413 (SG).
- (74) Agent: **FORRESTER**; Chamberlain House, Paradise Place, Birmingham, West Midlands B3 3HP (GB).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: SLIP JOINT AND METHOD OF OPERATING A SLIP JOINT

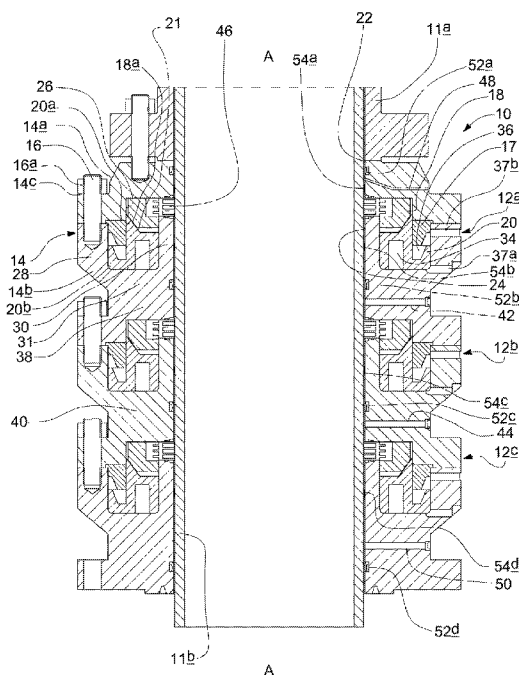


FIG 1

(57) Abstract: A slip joint (10) having a tubular inner barrel (11b) and a tubular outer barrel (11a), the inner barrel (11b) lying at least partially within the outer barrel (11a), the slip joint further comprising a sealing assembly (12a), (12b), (12c) which is operable to provide a substantially fluid tight seal between two sealing surfaces comprising an interior surface of the outer barrel 11a and an exterior surface of the inner barrel (11b), the sealing assembly (12a), (12b), (12c) including an actuator (20) and a seal (46), the actuator (20) being movable to push the seal (46) into engagement with one of the sealing surfaces.



Published:

- *without international search report and to be republished
upon receipt of that report (Rule 48.2(g))*